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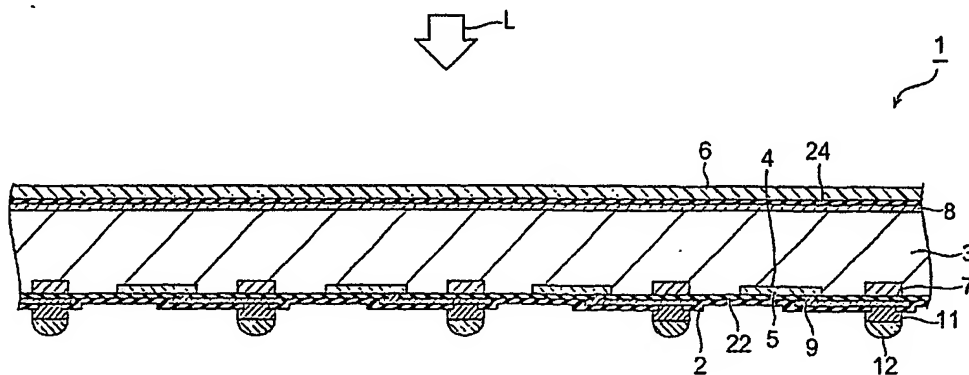
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— 国際調査報告書

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(54) Title: PHOTODIODE ARRAY AND PRODUCTION METHOD THEREOF, AND RADIATION DETECTOR

(54) 発明の名称: ホトダイオードアレイ及びその製造方法、並びに放射線検出器



(57) Abstract: A photodiode array (1) is provided with an n-type silicon substrate (3). A plurality of photodiodes (4) are formed in an array form on the surface opposite to the surface, onto which a light (L) to be detected enters, of the n-type silicon substrate (3). An area corresponding to a photodiode (4)-formed area on the light-to-be-detected (L)-incident surface of the n-type silicon substrate (3) is at least coated to provide a resin film (6) that transmits the light to be detected (L).

(57) 要約: ホトダイオードアレイ 1 は、n 型シリコン基板 3 を備える。n 型シリコン基板 3 における被検出光 L の入射面の反対面側に、複数のホトダイオード 4 がアレイ状に形成されている。n 型シリコン基板 3 の被検出光 L の入射面側におけるホトダイオード 4 が形成された領域に対応する領域を少なくとも被覆し、被検出光 L を透過する樹脂膜 6 が設けられている。

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2文字コード及び他の略語については、定期発行される
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のガイダンスノート」を参照。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004212

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01L27/146, H01L31/10, G01T1/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-291892 A (Hamamatsu Photonics Kabushiki Kaisha), 19 October, 2001 (19.10.01), Full text; all drawings & AU 4458601 A & CN 1422441 A & EP 1280207 A1 & WO 01/75977 A1 & US 2003/34496 A1	1-11
Y	JP 2003-66150 A (Canon Inc.), 05 March, 2003 (05.03.03), Full text; all drawings (Family: none)	1-11

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search

08 June, 2004 (08.06.04)

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/51950 A1 (Hamamatsu Photonics Kabushiki Kaisha), 19 July, 2001 (19.07.01), Full text; all drawings & AU 2548501 A & EP 1253442 A1 & US 2002/158208 A1	1-11
Y	JP 5-121711 A (NEC Corp.), 18 May, 1993 (18.05.93), Full text; all drawings (Family: none)	2-5, 7-11